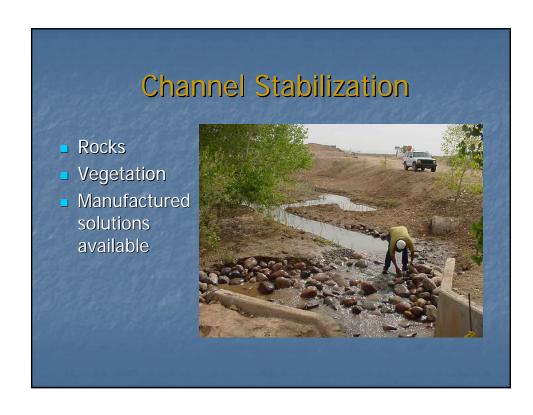
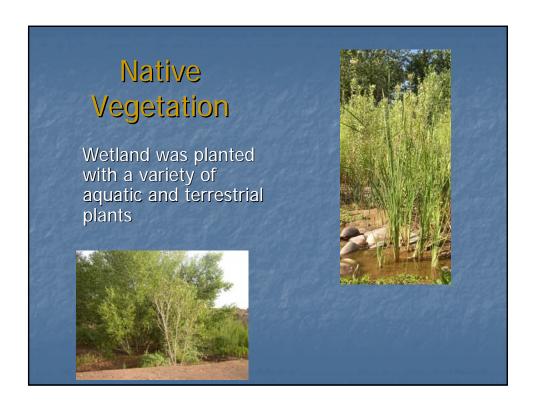
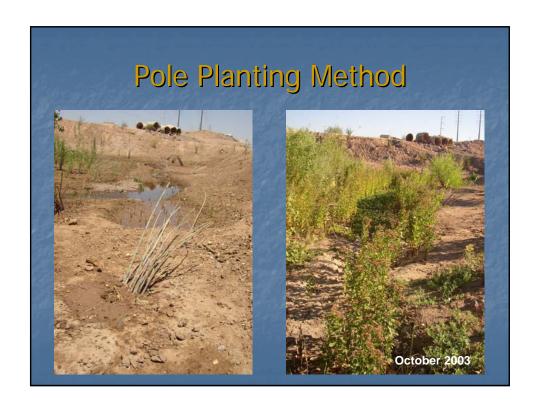




# Ecosystem Restoration Opportunity Removal of exotic and invasive tamarisk Bobcat Chainsaws Herbicides WEEDING







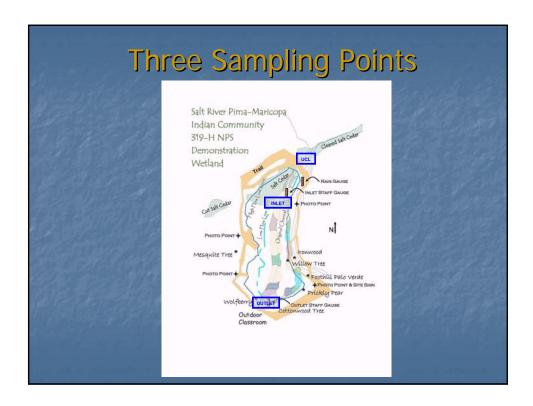
## Native Vegetation

Surrounding uplands planted with terrestrial mixture of mesquite, palo verde, cactus and xeric shrubs



# Monitoring Plan

- Quality Assurance Project Plan (QAPP)
  - Data-collection objectives of the wetland
  - Developed & submitted to EPA in 2003/2005
  - Approved by EPA in 2005
- Weekly
- Monthly
- laboratory samples



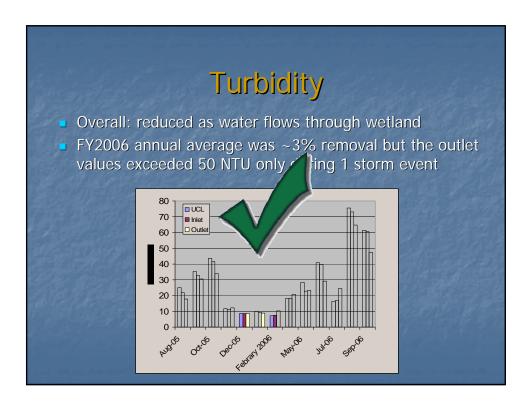


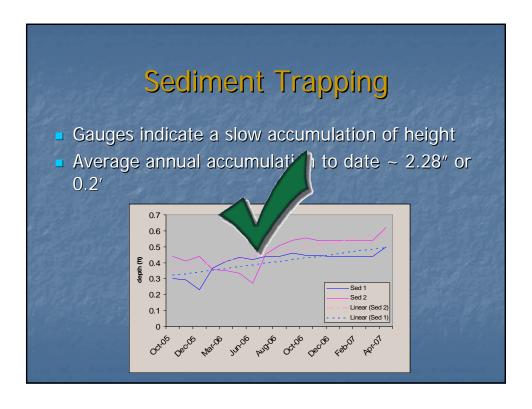


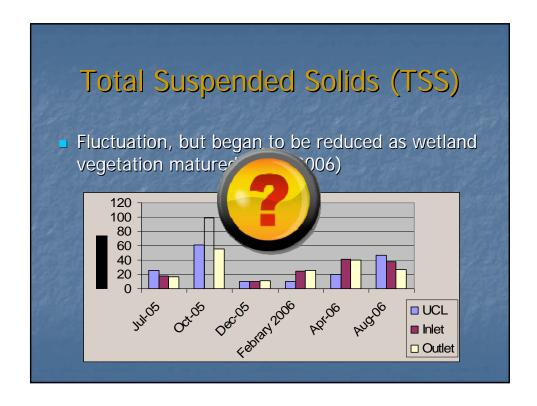


# Water Quality Changes

- Reduced turbidity
- Increased accumulation of sediment
- Other parameters within water quality standards









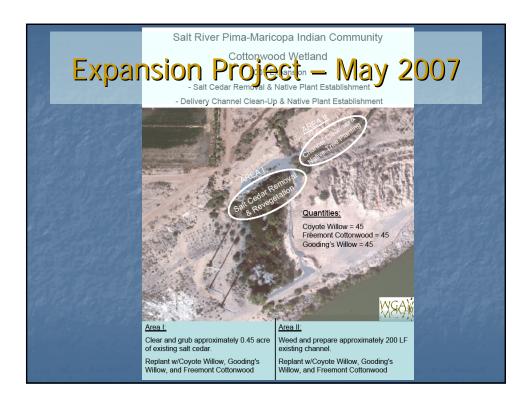
### Other Parameters

- pH varies between 7.5 and 8.8
- DO usually decreases as it passes through the wetland – between 3 and 9 ppm
- Conductivity consistent among sites varies with the temperature
- Flow reduced as it passes through, especially during summer months (ET)



# Benefits to Wetland

- Increased visitation
- Enhanced aesthetics
- Improved safety
- Solid waste issue addressed
- "Ownership" of project





### Benefits to Wetland

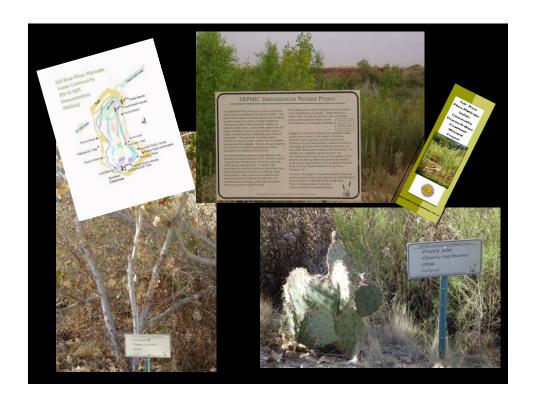
- Increased treatment area
- Exotic and invasive species removed

### **Lessons Learned**

- Increased publicity = increased vandalism
- Partnerships important
- Long-term maintenance plan
- Routines a *must*
- Sinkholes
- Water goes where it wants to!

# Overall Benefits to the Salt River Reduces pollutant loading to the river channel by providing: water quality treatment erosion control











### The Future

- Continued water quality monitoring
- Community education and outreach
  - Schools
  - Plantings
  - Cultural resources
- Expansion of treatment wetlands on the Community
  - Proposal for the Lehi district

